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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

E. LESTER JONES, DIRECTOR

CATALOGUE
OF
CHARTS, COAST PILOTS, AND
TIDE TABLES

OF THE


PHILIPPINE ISLANDS

PUBLISHED BY THE U. S. COAST AND GEODETIC SURVEY

DECEMBER 1, 1921



WASHINGTON
GOVERNMENT PRINTING OFFICE
1921



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DEPARTMENT OF COMMERCE

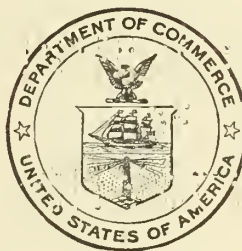
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EXPLANATION OF DATES ON U. S. COAST AND GEODETIC SURVEY CHARTS.

All U. S. Coast and Geodetic Survey charts bear below the border line a note indicating the date on which they were issued from the office in Washington, D. C. The form of this note is—

LIGHTS, BEACONS, BUOYS, AND DANGERS CORRECTED

FOR INFORMATION RECEIVED TO DATE OF ISSUE (date).

It should be understood that no additional information relative to lights, beacons, buoys, and dangers which could be charted had been received previous to this date. It is therefore unnecessary for a mariner to examine his file of Notice to Mariners of date prior to the date of issue of the chart for such corrections.

Other dates which appear on these charts are of less importance to mariners, but are necessary for the identification of the edition and print of the chart, and should be understood by those who use the chart.

A note, known as the authority note, gives the dates (years) of the surveys from which the chart was constructed.

This note reads as follows:

AUTHORITIES;

SURVEYS (date).

The surveys are by the U. S. Coast and Geodetic Survey unless otherwise stated.

When a new chart is issued, the date (month and year) is printed in the publication note.

PUBLISHED AT WASHINGTON, D. C. (date),

BY THE U. S. COAST AND GEODETIC SURVEY

E. LESTER JONES, *Director*.

This note is always placed just below the border of the chart and as near a central position as possible. The date in this note remains unchanged until an extensive correction is made on the plate from which the chart is printed. The date is then changed and the issue known as a new edition.

When a correction, not of sufficient importance to require a new edition, is made to a chart plate, the year, month, and day are noted below the border in the left-hand corner of the chart, thus: 20-6/30, 7/22, 21-2/3, 5/27.

EXPLANATORY NOTES.

The charts embraced in this catalogue are constructed on different scales in order to adapt them to the different conditions of navigation. The small-scale charts include large areas and are suited to offshore navigation, while those on large scale include small areas and are suited to alongshore navigation.

They are classified as follows:

SAILING CHART.—Scale, 1:1,600,000.

It is intended for the use of the navigator to fix his position as he approaches the coast from the open ocean or when sailing between distant coast ports. It shows the offshore soundings, the principal lights and outer buoys and such natural landmarks as may be visible at a considerable distance.

GENERAL CHARTS OF THE COAST.—Scales from 1:400,000 to 1:800,000. They are intended for coastwise navigation when the vessel's course would mostly be within sight of land, with her position fixed by landmarks, lights, outer buoys, and characteristic soundings.

COAST CHARTS.—Scales from 1:100,000 to 1:200,000. They are intended for close coastwise navigation when a vessel's course would carry her inside outlying reefs and shoals; also for entering bays and harbors of considerable width and for navigating the large inland waterways.

HARBOR CHARTS.—Scales from 1:5,000 to 1:80,000. They are intended for navigation of harbors and small waterways.

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CHARTS, COAST PILOTS, TIDE TABLES, AND NOTICE TO MARINERS RELATING TO THE PHILIPPINE ISLANDS PUBLISHED BY THE U. S. COAST AND GEODETIC SURVEY.

The charts are arranged in this catalogue in numerical order and the limits of the charts are graphically shown on diagrams on adjoining pages.

Agencies for the sale of the charts, coast pilots, and tide tables of the U. S. Coast and Geodetic Survey.

Philippine Islands:

Cebu—Pacific Commercial Co.

Iloilo—Hoskyn & Co.

Manila—Luzon Stevedoring Co., Water front foot of Calle Madrid.

U. S. Coast and Geodetic Survey Field Station, Intendencia Building.

Zamboanga—Ohta Development Co.

Hawaii:

Honolulu—Hawaiian News Co.

COAST PILOTS.

Philippine Islands, Part 1.—Luzon, Mindoro, and Visayas, 8vo, canvas, 1919. Price, 75 cents.

Philippine Islands, Part 2.—Palawan, Mindanao, and Sulu Archipelago, 8vo, canvas 1921. Price, 75 cents.

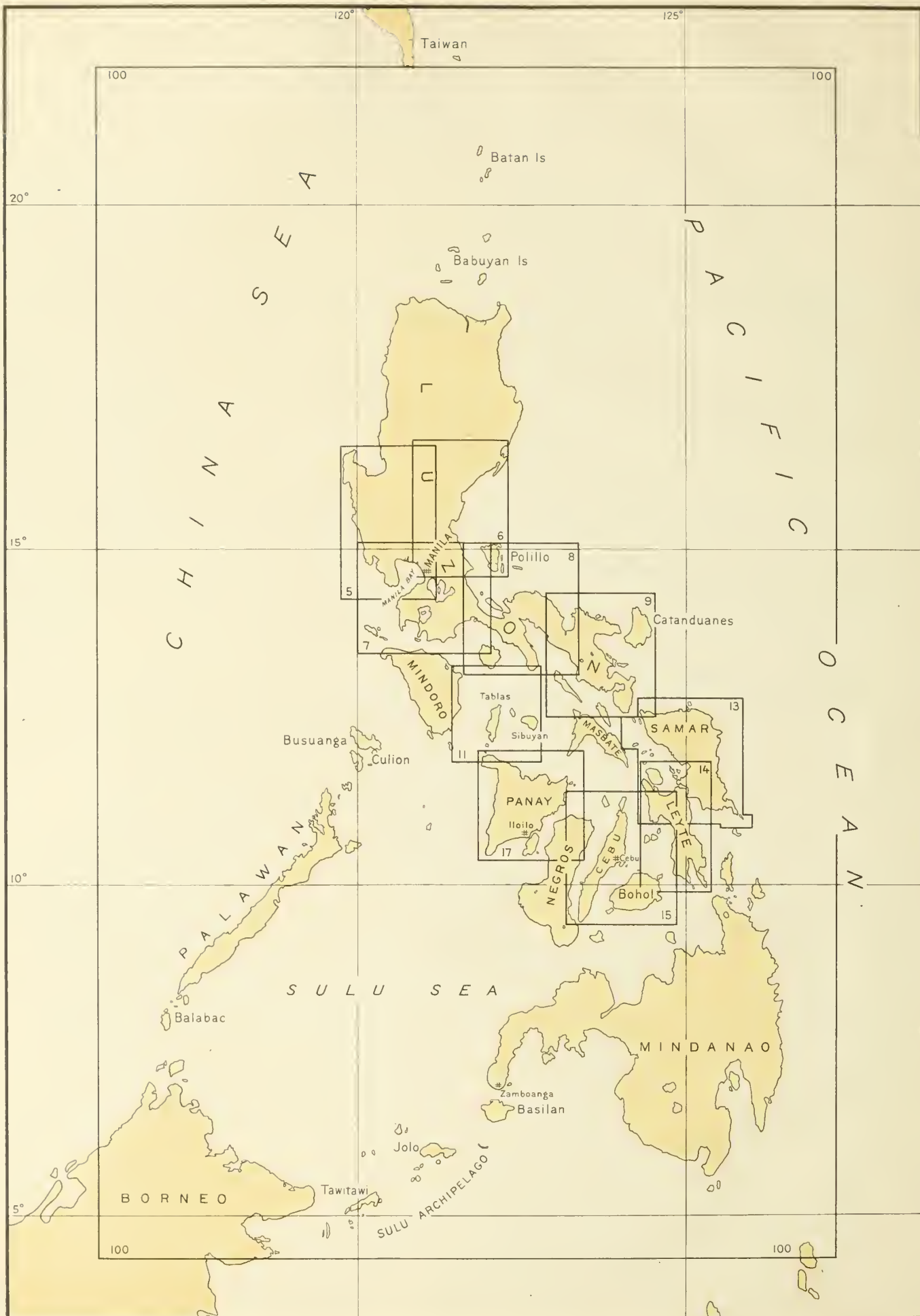
TIDE TABLES.

[Published annually six months in advance.]

	Price.
United States and Foreign Ports (including data on currents).....	\$0.75
Pacific Coast Tide Tables for western North America, eastern Asia, and many island groups.....	.15

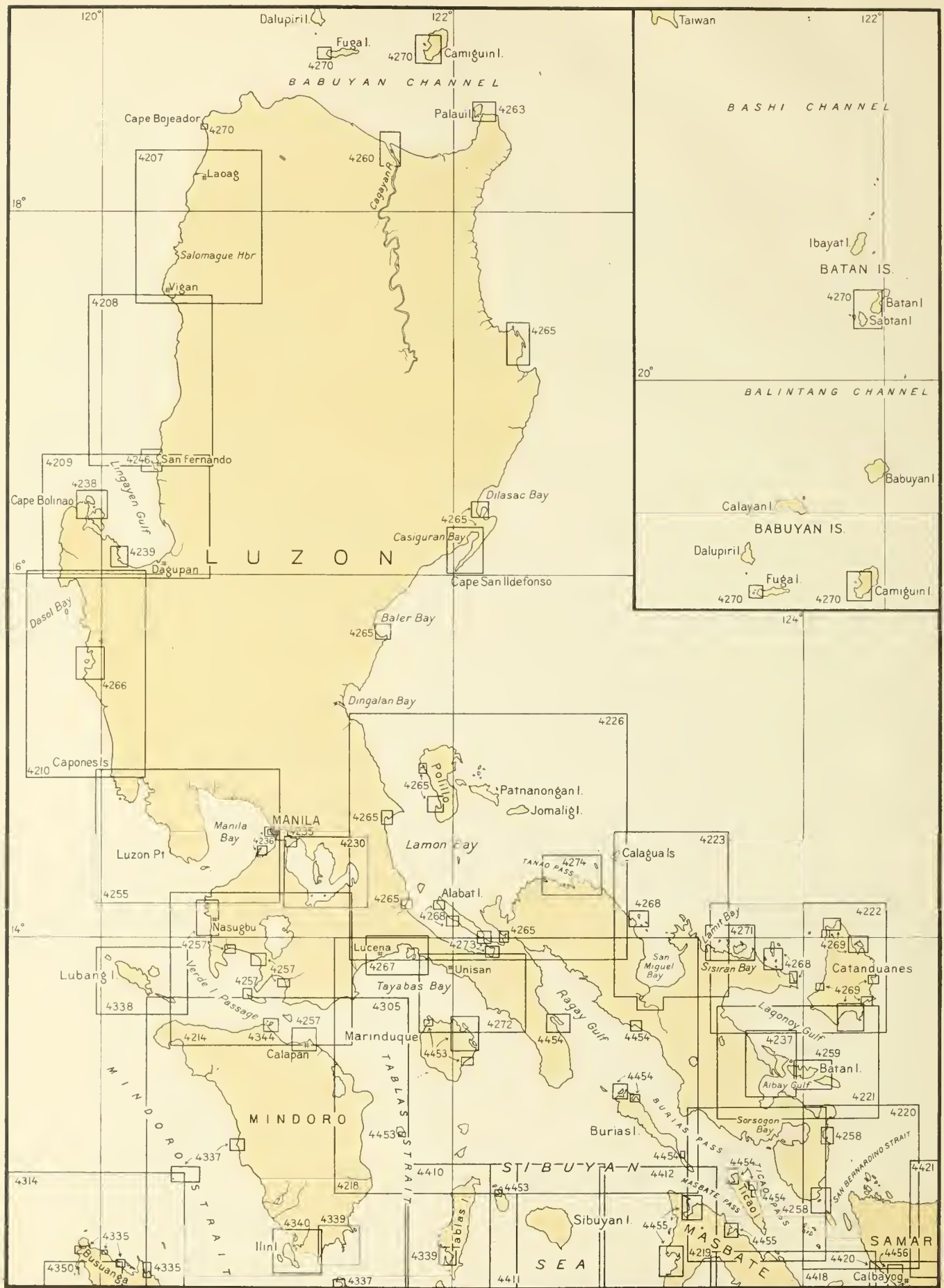
NOTICE TO MARINERS.

Corrections to be applied to charts to keep them up to date and the announcement of new charts, new editions of charts, and new publications of the Philippine Islands are included in the Notice to Mariners, published by the U. S. Coast and Geodetic Survey Field Station, Manila, P. I.



TOPOGRAPHIC MAPS OF THE PHILIPPINE ISLANDS.

Cat. No.	TITLE.	Scale.	Size.	Date.	Price.	Cat. No.	TITLE.	Scale.	Size.	Date.	Price.
5	Central Luzon.....	1:200,000	<i>Inches.</i> 32×50	1912	\$0.50	13	Samar and adjacent islands...	1:200,000	<i>Inches.</i> 36×40	1920	\$0.75
6	Central Luzon—eastern sheet.	1:200,000	31×45	1919	.75	14	Leyte.....	1:200,000	24×44	1914	.50
7	Southern Luzon.....	1:200,000	36×44	1913	.50	15	Cebu and Bohol.....	1:200,000	38×44	1915	.75
8	Southern Luzon—central sheet	1:200,000	39×44	1916	.75	17	Panay.....	1:200,000	35×38	1912	.50
9	Southern Luzon—southern sheet.....	1:200,000	36×41	1920	.75	100	Philippine Islands (in four sheets).....	1:1,000,000	50×78	1918	2.00
11	Islands of Tablas, Romblon, and Sibuyan.....	1:200,000	30×32	1913	.50						



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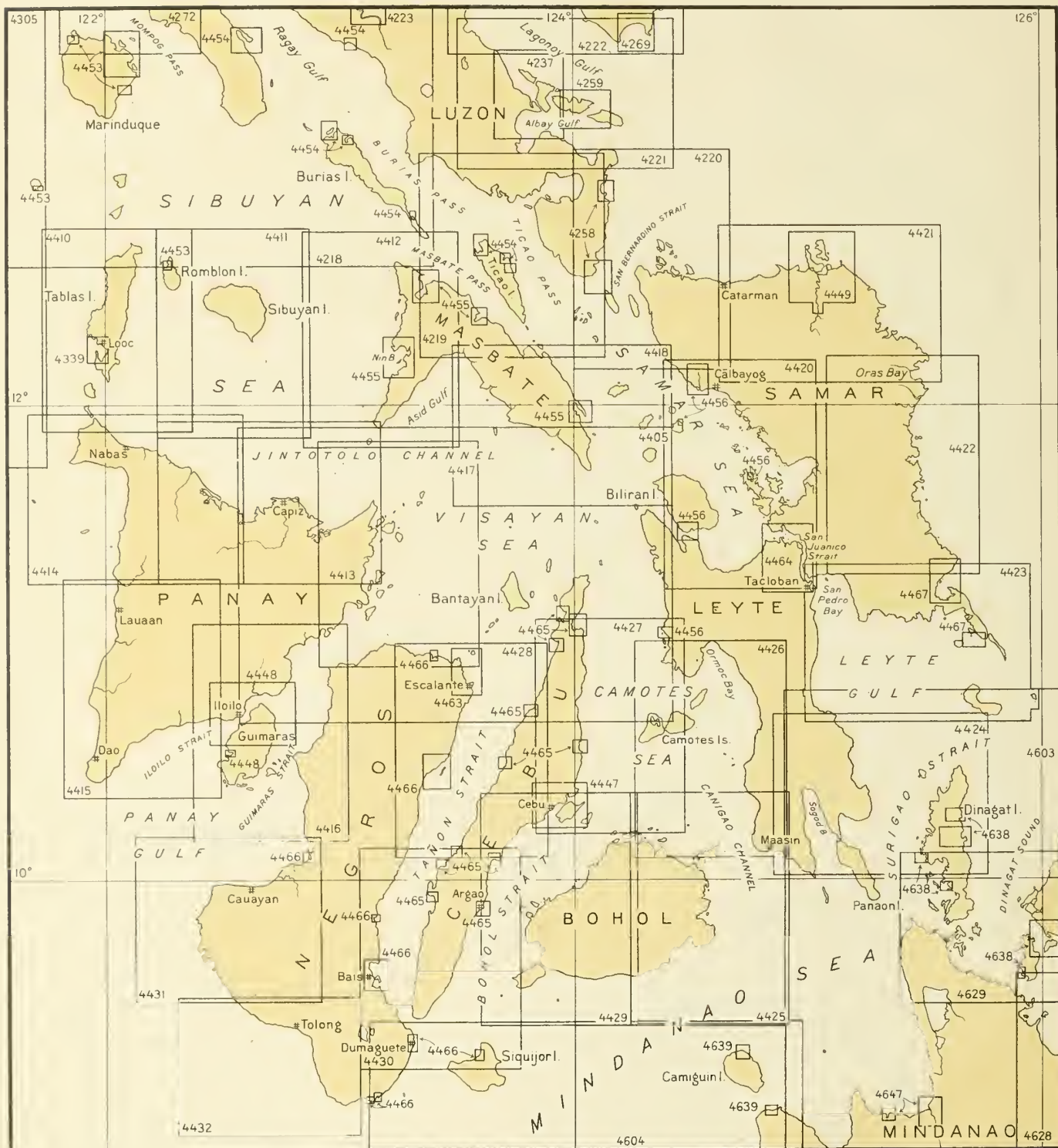
CHARTS OF THE PHILIPPINE ISLANDS.

[Numerical arrangement.]

Cat. No.	TITLE.	Scale.	Size of border (inches).	Date of last edition.	Price.	Cat. No.	TITLE.	Scale.	Size of border (inches).	Date of last edition.	Price.
COAST AND HARBOR CHARTS.						COAST AND HARBOR CHARTS—Continued.					
4200	Philippine Islands (see p. 15 for diagram).....	1:1,600,000	33×49	1918	\$0.75	4258	Matnog Bay and Tielin Strait, Luzon, I.....	1:30,000	18×26	1916	\$0.25
4207	Laoag to Vigan, Luzon, I.....	1:100,000	31×41	1906	.75	4259	Port Gubat; Luzon, I.....	1:20,000			
	Port Currinao and Gan Bay.....	1:20,000				4260	Rapurapu Strait and Calanaga Bay; Batan and Rapurapu, Is.....	1:30,000	23×31	1906	.50
	Salomague Harbor and Lapog Bay.....	1:20,000				4261	Aparri Anchorage and part of Cagayan River; Luzon, I.....	1:25,000	20×33	1915	.25
4208	Solvee Cove to San Fernando; Luzon, I.....	1:100,000	31×42	1906	.75	4263	Port San Vicente and vicinity; Luzon, I.....	1:20,000	25×27	1916	.25
	Solvee Cove.....	1:10,000				4265	Harbors on east coast of Luzon; Luzon, I.....		25×35	1909	.50
	San Esteban and Nalvo Bay.....	1:20,000					Port Dimalansan and Port Bicobian.....	1:60,000			
	Santiago Cove.....	1:10,000					West Dilasac Bay.....	1:50,000			
	Dirigayos Inlet.....	1:10,000					Casiguran Bay.....	1:80,000			
4209	Lingayen Gulf; Luzon, I.....	1:100,000	31×42	1912	.75		Baler Bay.....	1:50,000			
	Dagupan.....	1:20,000					Hook Bay.....	1:20,000			
4210	Capones Islands to Dasol Bay; Luzon, I.....	1:125,000	24×41	1915	.75		Polillo Harbor.....	1:30,000			
	Santa Cruz Inner Harbor.....	1:30,000					Port Lampon.....	1:20,000			
	Iba Anchorage.....	1:30,000					Mauban Anchorage.....	1:20,000			
4214	Verde Island Passage.....	1:125,000	31×37	1915	.75		Port Apat.....	1:20,000			
4218	Ragay Gulf to Tayabas Bay; Luzon, I.....	1:200,000	32×45	1920	.75	4266	Ports Masinloc and Matalvi and Palauig Bay, Luzon, I.....	1:25,000	29×32	1907	.50
4219	Passages between Luzon and Masbate and Sorsogon Bay.....	1:100,000	35×39	1919	.75	4267	Lucena Anchorage, Pagbilao Bay and Port Laguimano; Luzon, I.....	1:40,000	25×35	1907	.50
4220	San Bernardino Strait; Luzon and Samar, Is.....	1:100,000	30×41	1917	.75	4268	Harbors from Alabat to Pitogo Bay.....		26×30	1909	.50
	Biri Anchorage.....	1:20,000					Port Alabat, southwest coast; Alabat, I.....	1:20,000			
	Mauo River.....	1:10,000					Sangirin Bay, northwest coast; Alabat, I.....	1:20,000			
4221	Albay Gulf and part of Lagonoy Gulf; Luzon, I.....	1:100,000	28×40	1914	.75		Tabgon Anchorage, east coast; Luzon, I.....	1:30,000			
4222	Lagonoy Gulf to Lamit Bay and Catanduanes Island; Luzon, I.....	1:100,000	32×43	1909	.75		Canimo Pass and Mercedes, east coast; Luzon, I.....	1:25,000			
4223	San Miguel and Lamit Bays; Luzon, I.....	1:100,000	29×41	1913	.75		Pitogo Bay, east coast; Luzon, I.....	1:15,000			
	Continuation of Bicol River.....	1:100,000				4269	Harbors of Catanduanes.....		24×27	1909	.25
4226	Lamon Bay and Polillo Island.....	1:200,000	31×35	1921	.75		Cabugao Bay, south coast.....	1:50,000			
4230	Laguna De Bay.....	1:60,000	29×34	1921	.75		Bagamanoe and Anajao, east coast.....	1:30,000			
	Napindan Channel, Pasig River approach.....	1:10,000					Cobo Bay, west coast.....	1:20,000			
4235	Pasig River; Luzon, I.....	1:10,000	26×42	1913	.75		Port Manambrag, west coast.....	1:20,000			
4235	Manila and Cavite Harbors; Luzon, I.....		21×35	1921	.50		Pandan Bay, north coast.....	1:30,000			
	Manila Harbor.....	1:10,000					Jimoto Bay, east coast.....	1:20,000			
	Cavite Harbor.....	1:10,000					Kalapadan Bay, east coast.....	1:30,000			
4237	Tabaco Bay to Legaspi and western part of Albay Gulf; Luzon, I.....	1:40,000	32×41	1908	.75	4270	Harbors of Batan and Babuyan Islands and northern Luzon.....		23×24	1908	.25
4238	Bolinao Harbor and approaches; Luzon, I.....	1:20,000	35×36	1911	.75		Part of Batan Islands, including Baseo and Ibana.....	1:40,000			
4239	Port Sual to Comas Island; Luzon, I.....	1:15,000	23×38	1904	.50		Port San Pio Quinto; Camiguin, I.....	1:60,000			
4246	San Fernando Harbor; Luzon, I.....	1:15,000	25×28	1906	.50		Musa Bay; Babuyan, I.....	1:30,000			
4255	Manila Bay and Coast of Luzon to Capones Islands; Luzon, I.....	1:125,000	27×37	1920	.75		Drique Inlet; Luzon, I.....	1:10,000			
	Mariveles Harbor.....	1:20,000				4271	Lamit and Sisiran Bays; Luzon, I.....	1:30,000	30×41	1909	.75
4257	Anchorages, vicinity of Verde Island Passage.....		28×36	1907	.75	4272	Unisan to Mulanay and northern part of Marinduque; Luzon and Marinduque, Is.....	1:70,000	28×38	1910	.75
	Nasugbu and Jamelo Cove; Luzon, I.....	1:50,000				4273	Silangan Pass and Hondagua Harbor, Luzon, I.....	1:20,000	17×32	1913	.25
	Balayan; Luzon, I.....	1:10,000				4274	Tanao Pass, Luzon, I.....	1:40,000	21×36	1921	.50
	Taal and Lemery; Luzon, I.....	1:10,000					4305 to 4350 (see p. 9).				
	Batangas; Luzon, I.....	1:15,000					4410 to 4456 (see p. 11).				
	Port Maricaban; Maricaban, I.....	1:10,000									
	Calapan; Mindoro, I.....	1:40,000									

CHARTS OF THE PHILIPPINE ISLANDS—Continued.

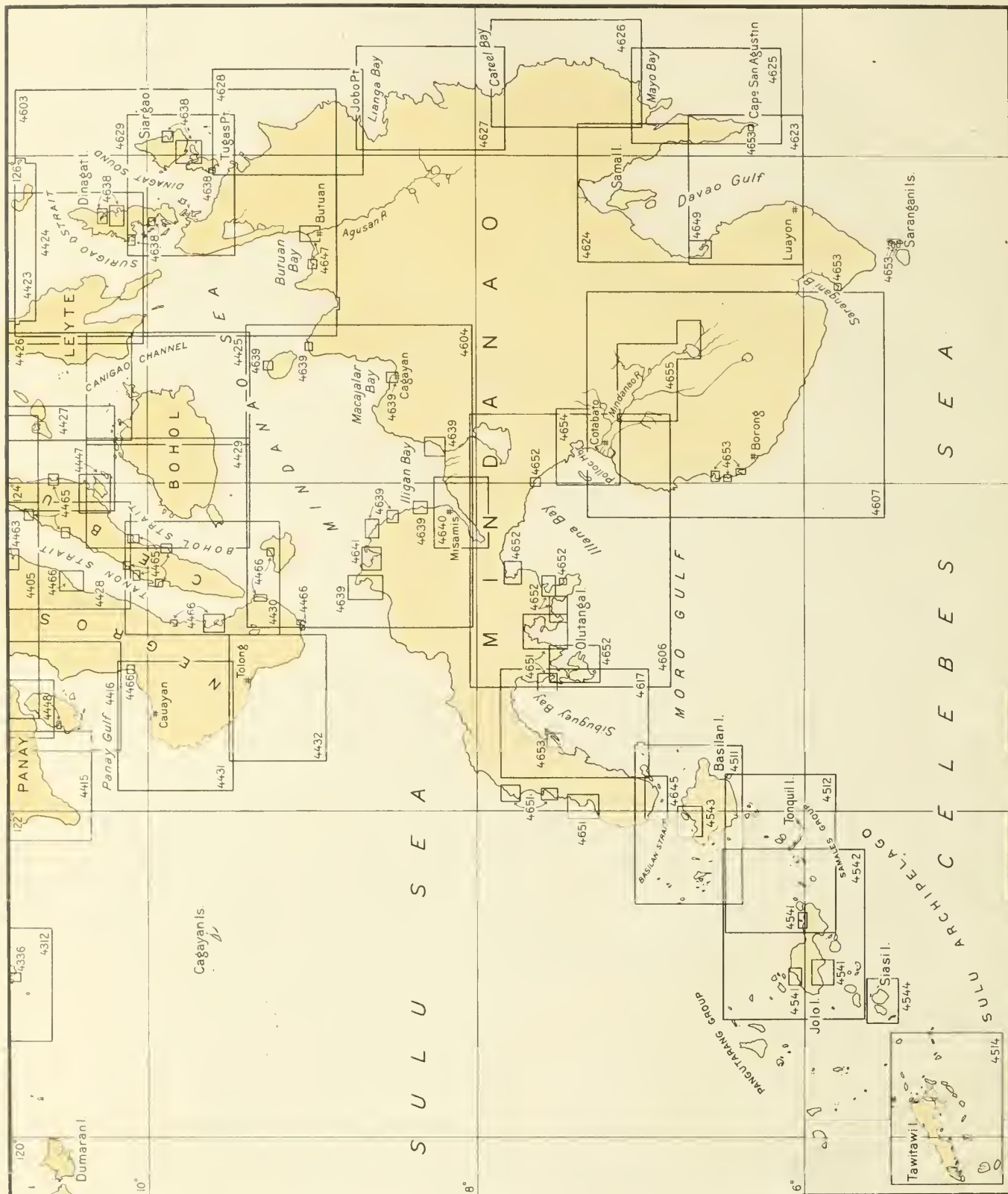
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COAST AND HARBOR CHARTS—Continued.						COAST AND HARBOR CHARTS—Continued.					
	4214 to 4272 (see p. 7).					4339	Anchorage southeast Mindoro and Tablas Island.....		25×37	1912	\$0.50
4305	Mindoro and vicinity.....	1:200,000	33×43	1919	\$0.75		Looc Bay; Tablas, I.....	1:40,000			
4309	Balabac Strait.....	1:200,000	31×42	1921	.75		Lagara Cove and Passes southward; Mindoro, I...	1:20,000			
4312	Cuyo Islands.....	1:100,000	31×41	1918	.75		Buruncan Point to Pocanil Bay; Mindoro, I.....	1:40,000			
4314	Northern part of Busuanga...	1:100,000	31×42	1919	.75						
4315	Palawan to Culion Island, including Linapacan Strait...	1:100,000	32×41	1917	.75	4340	Mangarin and Pandarochan Bays; Mindoro, I.....	1:40,000	26×30	1911	.50
4316	Northwest coast of Palawan, Malampaya Sound to St. Paul Bay.....	1:100,000	31×43	1905	.75	4342	Halsey Harbor and Dicabaito Anchorage; Culion, I.....	1:20,000	23×32	1921	.50
4317	Northeast coast of Palawan, Shark Fin Bay to Flechas Point; Palawan, I.....	1:100,000	31×44	1918	.75		Dicabaito Anchorage.....	1:20,000			
4319	Green Island Bay and vicinity	1:100,000	31×41	1920	.75	4343	Puerto Princesa; Palawan, I.	1:40,000	23×29	1920	.25
	Paseoc Channel, Green, I...	1:20,000				4344	Port Galera and Varadero Bay; Mindoro, I.....	1:10,000	29×35	1910	.75
4321	Bold Point to Malanao Island.	1:100,000	31×43	1920	.75	4346	Harbors of Palawan Island..		26×30	1920	.50
4325	North Balabac Strait and vicinity.....	1:100,000	32×42	1921	.75		Bacuit, northwest coast....	1:15,000			
4334	Anchorage East Coast of Palawan.....		27×29	1921	.75		Ulugan Bay, west coast....	1:30,000			
	Honda Bay.....	1:40,000					Malanut and Nakoda Bays, west coast.....	1:30,000			
	Malanao Anchorage.....	1:40,000					Culasian Bay, west coast...	1:20,000			
	Panacan Anchorage.....	1:40,000				4347	Harbors of Balabac Island....		23×28	1920	.25
4335	Harbors on the north coast of Busuanga.....		18×29	1920	.25		Clarendon Bay, south coast.	1:15,000			
	Minuit Anchorage.....	1:20,000					Calandorang Bay, east coast	1:15,000			
	Illultuk Bay.....	1:20,000					Dalawan Bay, east coast...	1:20,000			
	Port Calton.....	1:20,000					Port Ciego, north coast....	1:40,000			
	Minangas Bay.....	1:20,000				4348	Cagayan Sulu and adjacent islands.....	1:75,000	19×37	1905	.50
4336	Anchorage in Cuyo Islands.....		29×34	1918	.50		Lapulapul Anchorage....	1:15,000			
	Tagauayan Islands.....	1:10,000				4349	Malampaya Sound and approaches; Palawan, I.....	1:50,000	25×38	1908	.50
	Cuyo Anchorage and Bisu-cay Channel.....	1:10,000				4350	Western entrance to Coron Bay; Calamian Group.....	1:50,000	30×39	1919	.75
4337	Anchorage west and south of Mindoro; Mindoro, I.....		28×36	1916	.75	4351	Coron Bay; Calamian Group.	1:50,000	33×41	1916	.75
	Apo Reef.....	1:20,000					Culion Landing.....	1:2,000			
	Sablayan Anchorage and Pandan Bay.....	1:20,000				4355	Harbors on Dumaran Island..	1:20,000	33×38	1920	.75
	Semirara Anchorage.....	1:20,000					Dumaran Bay.....	1:20,000			
4338	Lubang Islands.....	1:60,000	28×38	1914	.75		4410 to 4453 (see p. 11).				
	Golo Pass.....	1:20,000					4511 to 4651 (see p. 13).				



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CHARTS OF THE PHILIPPINE ISLANDS—CONTINUED.

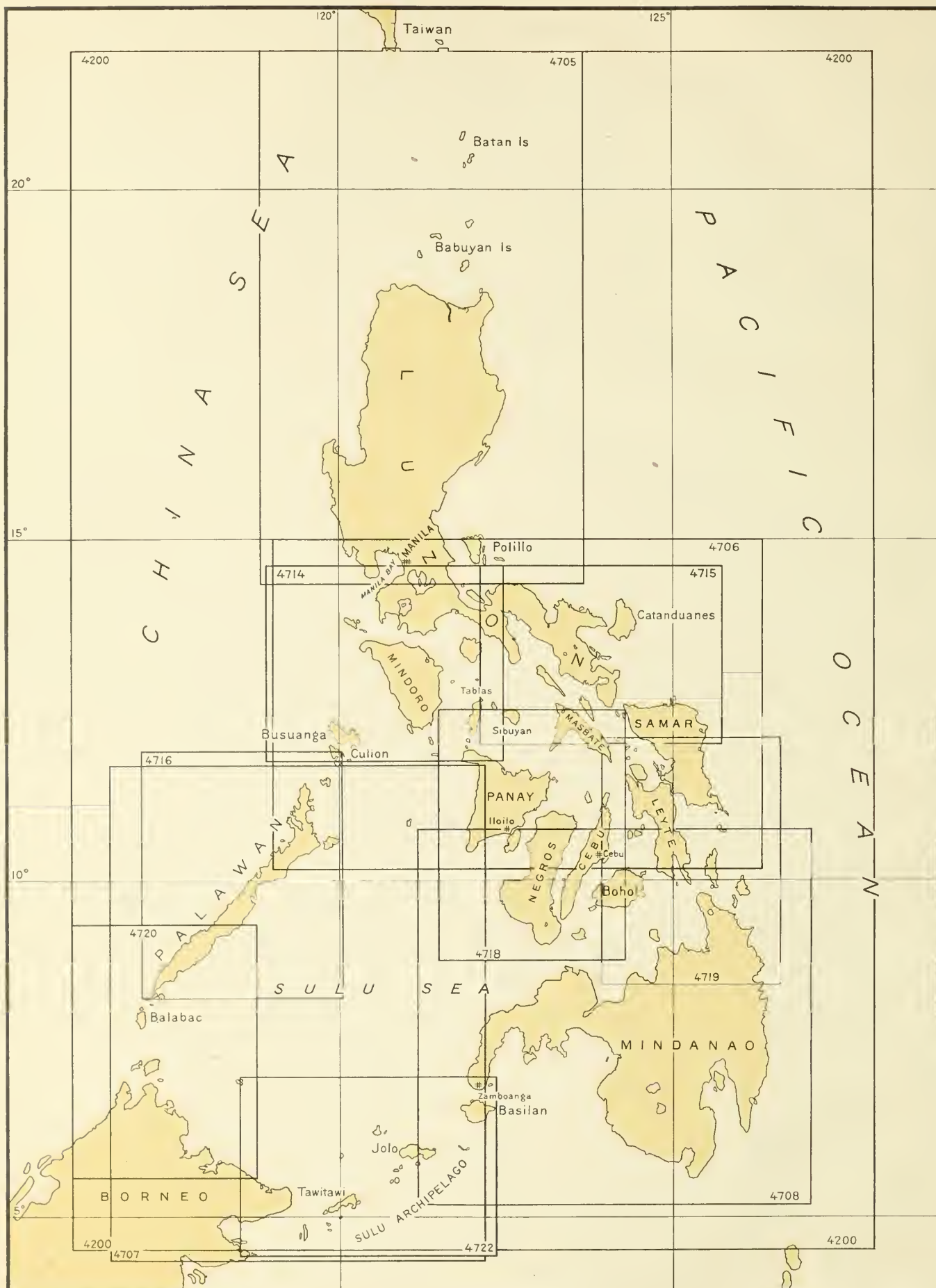
Cat. No.	TITLE.	Scale.	Size of border (inches).	Date of last edition.	Price.	Cat. No.	TITLE.	Scale.	Size of border (inches).	Date of last edition.	Price.
COAST AND HARBOR CHARTS—Continued. 4218 to 4272 (see p. 7). 4305 to 4339 (see p. 9).						COAST AND HARBOR CHARTS—Continued.					
4405	Visayan Sea.....	1:200,000	28×41	1914	\$0.75	4454	Harbors on Burias and Ticao Islands and Ragay Gulf.....	1:30,000	31×33	1920	\$1.75
4410	Tablas Island and vicinity.....	1:100,000	28×38	1913	.75		Port Pasgo, Ragay Gulf; Luzon, I.....	1:30,000			
4411	Sibuyan and Romblon Islands.....	1:100,000	29×39	1914	.75		Pasacao Anchorage, Ragay Gulf; Luzon, I.....	1:20,000			
4412	Western Masbate.....	1:100,000	30×40	1917	.75		Port Busin, north coast; Burias, I.....	1:20,000			
4413	Northern Panay, Sigat Point to Bulacane Point.....	1:100,000	30×12	1919	.75		Port Busainga, northeast coast; Burias, I.....	1:15,000			
	Capiz Bay.....	1:30,000					Port Boca Engaño, south-east coast; Burias, I.....	1:10,000			
	Port Batan.....	1:30,000					Port San Miguel, northwest coast; Ticao, I.....	1:20,000			
4414	Northwestern Panay.....	1:100,000	32×40	1917	.75		Port San Jacinto, east coast; Ticao, I.....	1:20,000			
4415	Southwestern Panay.....	1:100,000	30×40	1921	.75		Taclogan Bay, east coast of Ticao, I.....	1:20,000			
4416	San Jose De Buenavista.....	1:10,000				4455	Harbors on the coast of Masbate.....	1:30,000	28×37	1917	.75
4416	Iloilo and Guimaras Straits; Panay and Guimaras, Is.....	1:100,000	30×41	1919	.75		Port Barrera, north coast.....	1:30,000			
4417	Northeastern Panay and adjacent islands.....	1:100,000	31×42	1911	.75		Masbate Harbor, northeast coast.....	1:20,000			
4418	Southeast Masbate.....	1:100,000	30×41	1915	.75		Port Cataingan, east coast.....	1:30,000			
4420	Calbayog to Tacloban; Samar and Leyte, Is.....	1:100,000	29×42	1914	.75		Nin Bay, west coast.....	1:30,000			
	Catbalogan Harbor.....	1:35,000				4456	Harbors of Samar and Leyte.....	1:10,000	24×28	1914	.25
4421	Catarman to Oras Bay; Samar, I.....	1:100,000	30×12	1908	.75		Jibatan River, west coast; Samar, I.....	1:50,000			
	Helm Harbor and San Ramon Bay.....	1:25,000					Santo Niño Harbor; Santo Niño, I.....	1:15,000			
4422	Oras Bay to Matarinao Bay; Samar, I.....	1:100,000	29×41	1908	.75		Parasan Harbor; Daram, I.....	1:10,000			
	Port Libas.....	1:30,000					Biliran Strait; Leyte and Biliran, Is.....	1:20,000			
	Port Borongan.....	1:30,000					Port Palompon; Leyte, I.....	1:10,000			
	Llorente and vicinity.....	1:30,000				4463	Escalante Harbor and vicinity; Negros, I.....	1:20,000	30×41	1909	.75
4423	Southern part of Samar and San Pedro Bay.....	1:100,000	30×43	1910	.75	4464	San Juanico Strait and Janabatas Channel; Samar and Leyte, Is.....	1:30,000	31×40	1910	.75
4421	Southeast coast of Leyte and Dinagat Island.....	1:100,000	31×31	1913	.75		Northern entrance to San Juanico Strait.....	1:10,000			
	Liloan Bay and Panaon Strait.....	1:10,000				4465	Harbors in Cebu.....	1:30,000	25×32	1912	.50
4423	Eastern Bohol and part of Leyte.....	1:100,000	31×41	1910	.75		Hagnaya Bay.....	1:30,000			
4425	Southwest coast of Leyte, Ormoc Bay to Maasin.....	1:100,000	30×41	1915	.75		Tuburan.....	1:30,000			
	Maasin.....	1:10,000					Balamban Bay.....	1:30,000			
4427	East coast of Cebu; Cebu, I.....	1:100,000	28×40	1910	.75		Lambusan.....	1:30,000			
4428	Northern part of Tañon Strait; Negros and Cebu, Is.....	1:100,000	29×40	1911	.75		Dumanjug Bay.....	1:20,000			
4429	Western Bohol; Bohol, I.....	1:100,000	30×44	1911	.75		Moalbual.....	1:20,000			
4430	Tañon Strait, southern part; Cebu and Negros, Is.....	1:100,000	31×42	1911	.75		Argao.....	1:25,000			
4431	Western Negros.....	1:100,000	31×36	1914	.75		Bogo Bay.....	1:30,000			
4432	Southwestern Negros.....	1:100,000	27×35	1913	.75		Carcar Bay.....	1:15,000			
4447	Cebu Harbor and approaches; Cebu, I.....	1:30,000	28×35	1910	.50		Port Carmen.....	1:15,000			
	Cebu Anchorage.....	1:10,000					Barili Bay.....	1:15,000			
4448	Iloilo Strait and Harbor; Panay, I.....	1:50,000	24×32	1919	.50	4466	Harbors in Negros and vicinity.....	1:10,000	32×37	1911	.75
	Iloilo River.....	1:10,000					Dumaguete; Negros, I.....	1:15,000			
	Santa Ana Bay.....	1:20,000					Himugaan River; Negros, I.....	1:10,000			
4449	Port Palapag and Laoang Bay; Samar, I.....	1:40,000	32×33	1911	.75		Calacalag Bay; Negros, I.....	1:5,000			
4453	Harbors of Marinduque Island and vicinity.....	1:10,000	29×36	1913	.75		Port Canaan; Siquijor, I.....	1:10,000			
	Port Balanacan, northwest coast; Marinduque, I.....	1:30,000					Port Bombonan; Negros, I.....	1:35,000			
	Santa Cruz Harbor and Masagasai Bay, northeast coast; Marinduque, I.....	1:5,000					Refugio Pass; Negros, I.....	1:30,000			
	Torrijos Bay, east coast; Marinduque, I.....	1:10,000					Bais; Negros, I.....	1:10,000			
	Port Concepcion; Maestro de Campo, Is.....	1:10,000					Port Siyt; Negros, I.....	1:20,000			
	Romblon Harbor, west coast; Romblon, I.....	1:10,000				4467	Himamaylan; Negros, I.....	1:20,000	19×31	1911	.25
							Guiuan Harbor; Samar, I.....	1:35,000			
							Pambujan Harbors; Samar, I.....				
							4603 to 4647 (see p. 13).				



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CHARTS OF THE PHILIPPINE ISLANDS—CONTINUED.

Cat. No.	TITLE.	Scale.	Size of border (inches).	Date of last edition.	Price.	Cat. No.	TITLE.	Scale.	Size of border (inches).	Date of last edition.	Price.
	COAST AND HARBOR CHARTS—Continued.						COAST AND HARBOR CHARTS—Continued.				
	4312 to 4336 (see p. 9). 4405 to 4466 (see p. 11).					4639	Anchorage in Iligan Bay and vicinity; Mindanao, I.		29×35	1911	\$0.75
4511	Basilan Strait; Mindanao and Basilan, Is.	1:100,000	30×43	1921	\$0.75		Plaridel and Inamucan Bay	1:25,000			
4512	Samal Group, Sulu Archipelago.	1:100,000	30×43	1906	.75		Dapitan and Dipolog.	1:40,000			
	Ton Sandungan Channel.	1:25,000					Canauayor Anchorage.	1:20,000			
4514	Tawitawi Group, Sulu Archipelago.	1:100,000	31×41	1906	.75		Jimenez.	1:20,000			
	Port Dos Amigos.	1:15,000					Iligan and Overton Anchorages and Quinalang Cove.	1:40,000			
	Port Bongao.	1:25,000					Oroquieta.	1:20,000			
	Simanale Bay and Channel.	1:25,000					Port Mambajao.	1:10,000			
4541	Anchorage, Jolo Island; Jolo, I.		26×37	1912	.50	4640	Cagayan Anchorage.	1:20,000			
	Jolo Anchorage, north coast.	1:10,000					Port Misamis; Mindanao, I.	1:60,000	26×33	1908	.50
	Dalrymple Harbor, north coast.	1:20,000					Port Misamis.	1:20,000			
	Maibun Bay, south coast.	1:40,000				4641	Murcielagos Bay; Mindanao, I.	1:30,000	19×23	1901	.25
4542	Jolo Island and vicinity.	1:189,000	21×25	1911	.25	4645	Vicinity of Zamboanga Mashilloc Anchorage to Caldera Bay; Mindanao, I.	1:30,000	21×37	1912	.50
4543	Isabela Channel and approaches; Basilan, I.	1:25,000	25×33	1910	.50	4647	Agusan River entrance; Mindanao, I.	1:20,000	19×28	1911	.25
4544	Siasi and Lapac Islands.	1:30,000	31×40	1906	.75		Nasipit Harbor; Mindanao, I.	1:15,000			
4603	Surigao Strait and vicinity; Mindanao and Leyte, Is.	1:200,000	34×44	1913	.75	4649	Malalag Bay, south coast; Mindanao, I.	1:20,000	23×25	1907	.25
4604	Iligan Bay and vicinity.	1:200,000	31×41	1911	.75	4651	Harbors on the south and west coasts of Mindanao.		28×32	1913	.50
4606	Port Sibulan to Polloc Harbor; Mindanao, I.	1:200,000	28×37	1915	.75		Dumanquilas Bay; Mindanao, I.	1:75,000			
4607	Cotabato to Sarangani Bay; Mindanao, I.	1:200,000	31×41	1917	.75		Taba Bay; Mindanao, I.	1:30,000			
4617	Sibuguey Bay; Mindanao, I.	1:100,000	30×40	1909	.75		Port Santa Maria; Mindanao, I.	1:40,000			
4623	Southern part of Davao Gulf; Mindanao, I.	1:100,000	32×41	1913	.75		Panabutan and Cautit Bay; Mindanao, I.	1:40,000			
4624	Northern part of Davao Gulf; Mindanao, I.	1:100,000	32×39	1909	.75	4652	Sibuco Bay; Mindanao, I.	1:100,000			
	Davao.	1:20,000					Harbors in Illana Bay and vicinity; Mindanao, I.		31×33	1912	.75
	Malipano Anchorage.	1:20,000					Port Sibulan.	1:60,000			
4625	Cape San Augustin to Mayo Bay; Mindanao, I.	1:100,000	26×40	1914	.75		Port Baras.	1:20,000			
	Baleta Bay.	1:20,000					Limbug Cove.	1:15,000			
4626	Mayo Bay to Cateel Bay; Mindanao, I.	1:100,000	30×41	1915	.75		Port Sambuluan.	1:30,000			
4627	Cateel Bay to Jobo Point; Mindanao, I.	1:100,000	29×40	1915	.75		Pagadian Bay.	1:50,000			
	Lamon Anchorage.	1:20,000					Maligay Bay.	1:50,000			
	Catarman Anchorage.	1:20,000				4653	Harbors on the south coast of Mindanao, I.		25×34	1919	.50
4628	Jobo Point to Tugao Point; Mindanao, I.	1:100,000	39×40	1913	.75		Lavigan Anchorage; Mindanao, I.	1:5,000			
	Bitaugan Bay.	1:30,000					Port Patuco, Sarangani, I.	1:10,000			
4629	Hinatuan Passage; Mindanao, I.	1:100,000	30×38	1913	.75		Port Bolay, Sarangani, I.	1:5,000			
	Surigao.	1:10,000					Port Tumanao, west coast; Sarangani, I.	1:15,000			
4638	Harbors on Dinagat, Siargao and Bucas Islands.		30×37	1913	.75		Canalasan Cove; Mindanao, I.	1:20,000			
	Dapa Channel.	1:35,000				4654	Basiauang Bay; Mindanao, I.	1:20,000			
	Gaas Bay and Inlet.	1:30,000					Port Lebak; Mindanao, I.	1:20,000			
	Dinagat.	1:20,000					Tuna Bay; Mindanao, I.	1:20,000			
	Solutan Bay and Inlet.	1:20,000					Port Banga; Mindanao, I.	1:20,000			
	San Roque.	1:25,000					Mindanao River Delta and Polloc Harbor; Mindanao, I.	1:50,000	34×41	1917	.75
	Port Pilar.	1:30,000					Parang and Polloc anchorages.	1:20,000			
	Malinao Inlet.	1:25,000				4655	Cotabato entrance, Mindanao River.	1:20,000			
							Mindanao River, upper part; Mindanao, I.	1:50,000	31×42	1909	.75
							Continuation of Buluan and Alip Rivers.	1:50,000			



CHARTS OF THE PHILIPPINE ISLANDS—Continued.

Cat. No.	TITLE.	Scale, approximate.	Size of border (inches).	Date of last edition.	Price.	Cat. No.	TITLE.	Scale, approximate.	Size of border (inches).	Date of last edition.	Price.
	SAILING CHART AND GENERAL CHARTS OF THE COAST.						SAILING CHART AND GENERAL CHARTS OF THE COAST—Continued.				
4200	Philippine Islands.....	1:1,600,000	33×19	1918	\$0.75	4715	Southeastern Luzon and parts of Masbate and Samar.....	1:400,000	30×40	1917	\$0.75
4705	Manila Bay to Taiwan.....	1:800,000	28×44	1919	.75	4716	Palawan.....	1:100,000	34×40	1919	.75
4706	Philippine Islands, central part.....	1:800,000	27×40	1921	.75	4718	Panay, Negros and Cebu, with parts of Bohol and Masbate.	1:400,000	31×41	1917	.75
4707	Philippine Islands, southwestern part.....	1:800,000	31×41	1920	.75	4719	Surigao Strait and Leyte, with parts of Samar and Mindanao.....	1:400,000	30×40	1915	.75
4708	Philippine Islands, southeastern part.....	1:800,000	31×33	1917	.75	4720	Balabac Strait and approaches	1:400,000	31×41	1919	.75
4714	Southwestern Luzon and Mindoro.....	1:395,000	32×39	1920	.75	4722	Sulu Archipelago.....	1:400,000	30×42	1911	.75

TABLE OF SCALE EQUIVALENTS.

The following table gives the lengths of nautical and statute miles on the several scales named, these scales being the proportionate size of the chart to nature. That is, in the scale 1:1,200 the chart is 1:1,200 part of the actual linear dimensions in nature (or 100 feet to the inch), equal to 60.8 inches to a nautical mile, and 52.8 inches to a statute mile, and so on.

A nautical mile is a minute of an average great circle of the earth, and its length is 6,080 feet, or 1,853.2 meters. A statute mile is 5,280 feet, or 1,609.3 meters.

Scale.	Nautical mile.		Statute mile.	
	Inches.	Centimeters.	Inches.	Centimeters.
1:1,200	60.803	154.44	52.800	134.11
1:2,400	30.401	77.22	26.400	67.06
1:4,800	15.201	38.61	13.200	33.53
1:5,000	14.593	37.06	12.672	32.19
1:10,000	7.296	18.53	6.336	16.09
1:15,000	4.864	12.36	4.224	10.73
1:20,000	3.648	9.27	3.168	8.05
1:30,000	2.432	6.18	2.112	5.36
1:40,000	1.824	4.63	1.584	4.02
1:50,000	1.459	3.71	1.267	3.22
1:60,000	1.216	3.09	1.056	2.68
1:80,000	.912	2.32	.792	2.01
1:100,000	.730	1.85	.634	1.61
1:200,000	.365	.93	.317	.80
1:400,000	.182	.46	.158	.40
1:1,000,000	.073	.18	.063	.16
1:1,200,000	.061	.15	.053	.13

1 meter=39.37 inches; 1 centimeter=0.3937 inch; 1 inch=2.54 centimeters.

